

KALEJA GmbH  
D-73553 Alfdorf

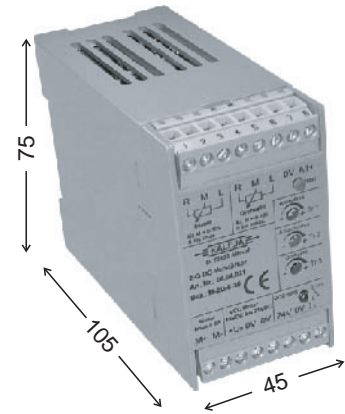
**Motor-speed control for  
brush sticking  
direct current motor 24VDC**

**Implementation for switching current  
up to 6A**

**With speed control, current control  
2 quadrant operation without change of  
rotation**

**to snap onto DIN - rail EN 50022**

**Construction width: 45mm**



<b>Short designation / type</b>		<b>Rated voltage: 24VDC</b> M-2Q-6-30
<b>Art. - No.</b>		<b>06.04.021</b>
<b>Technical data: input circuit</b>		
Rated voltage / threshold voltage	24 VDC	
Range of rated voltage min. / max.	19V to 35VDC	
Input current during rated voltage	10mA	
Analogue input - range of voltage	0V to 10VDC	
Status indicator	LED 3mm yellow	
<b>Technical data: output circuit</b>		
<b>MOS-FET</b>		
Range of switching voltage / motor voltage	19V to 35VDC	
Max. permanent load current	6A	
Current limitation min. / max.	1A to 6A	
Switch-on current rise	up to 12 A adjustable	
Time os switch-on current rise	20 . 2000ms adjustable	
Power driver	MOS-FET	
<b>Other data</b>		
Ambient temperature range	-20°C to + 50°C	
Absence of vibration a/r (10...500Hz)	> 20 / 5	
Overload protection / short-circuit-proof / temperature monitoring	yes / yes / yes	
DIN VDE-determinations	VDE 0110, 0160 in parts	
Position of installation / mounting	can be snapped, addable	
Mode of connection: screw terminal / pluggable	single wire 4mm <sup>2</sup> , fine wire 2,5mm <sup>2</sup>	
Dimensions: W x D x H	45mm x 75mm x 105mm	

# Description

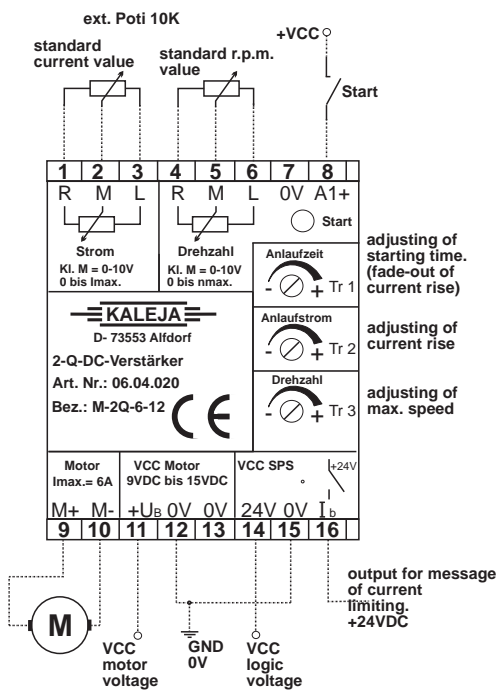
The M-2Q-6-30 module is a two-quadrant motor control system for 24VDC motors. It ensures switching ON/OFF and the controlled driving and braking of motors, solenoid valves and other loads. The load is short-circuited in OFF condition which result in dynamical braking.

## Special features:

Short-circuit protection, temperature protection, overload protected, analog inputs 0 to 10V for motor speed and current control, signal output current limiting, adjustable switch-on current rise, adjustable max. speed, 20 kHz pulse width modulated high efficiency MOS-FET output stage.

## Electrical connection and controls

### Standard circuit elements



### PLC circuit elements

